TI2375 Revised 06-01

KODAK GEN 5 Film GRD, GRD7, GRDM, GR7M

Features/Customer Product Specification

KODAK GEN 5 Films are high contrast, broad band red-sensitive films. Their sharp dots are capable of high resolution at fine screen rulings. These films are optimized for exposure on film recorders that use a helium-neon laser (633 nm) or a red laser diode (630 to 670 nm) as the exposing source.

These films feature high processing speeds (development in as little as 20 seconds) and low replenishment rates in rapid-access developer and fixer, which contribute to improved productivity and reduced operating costs.

GEN 5 Films are coated on a dimensionally stable KODAK ESTAR Base with antistatic and surface properties to ensure dependable transport and handling behavior.

Safelight Recommendations

Use an EncapSulite* T20/ND.75 or equivalent. Keep the film at least 1.2 metres (4 feet) from the safelight. Do not expose the film to safelight illumination for longer than two minutes.

*__European office:__
EncapSulite International Ltd.
Frau Karia Hoppe, EncapSulite Sales
5 Koln 90 Germany

__US address:__
EncapSulite International Inc.
505 Julie rivers Road #170
Sugar Land, TX 77478-2848

Storage

Keep unexposed film and processed film in a cool, dry place, preferable at a temperature of 70ºF (21ºC) or lower and 50% RH. Process film as soon as possible after exposure.

Exposure

These films are intended for use on film recorders that use a 633 nm helium-neon (HN) laser or a 630 to 670 nm red laser diode (RLd) as the exposing source. Follow the exposure procedures recommended by the equipment manufacturer.

Mechanized Processing

NOTICE! Observe precautionary information on product labels and on the Material Safety Data Sheets.

GEN 5 Films can be processed in KODAK RA 2000 Developer and Replenisher, diluted either 1:2 or 1:4. To achieve the hightest productivity (20 second development time) and the best image quality and linearity, use a 1:2 dilution. To achieve the maximum savings in chemical usage use a 1:4 dilution and a 30 second development time.

The recommended starting points for development and replenishment, using KODAK RA 2000 Developer and Replenisher (1:2) are:

Rapid Access Processors, 20 seconds at 95ºF (35ºC)

Tank Turnovers per Week	Percent Exposed Area	Basic Replenishment Rates
Minimum of 0.5	50%	0.23 mL/sq in. (350 mL/sq m)

The recommended starting points for development and replenishment, using KODAK RA 2000 Developer and Replenisher (1:4) are:

Rapid Access Processors, 30 seconds at 95ºF (35ºC)

Tank Turnovers per Week	Percent Exposed Area	Basic Replenishment Rates
Minimum of 0.5	50%	0.30 mL/sq in. (465 mL/sq m)

Kodak Polychrome Graphics LLC
Norwalk, CT 06851
USA

End of Instruction Sheet

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1) Support

Dimensionally stable support:

GRD, GRDM	4 mil (0.004in., 0.10 mm)	ESTAR Base
GRD7, GR7M	7 mil (0.007 in., 0.18 mm)	ESTAR Thick Base

1) Dimensional Stability

Dimensional stability is an all-inclusive term. In photography, it applies to size changes caused by changes in humidity and in temperature, and by processing and aging. The dimensional properties of ESTAR Base may vary slightly in different directions within a sheet; the differences that may exist, however, are not always aligned with the length and width directions:

Data for the 4-mil products (GRD, GRDM):

Thermal Coefficient of Linear Expansion:

Unprocessed or Processed	0.001% per degree F 0.0018% per degree C

Humidity Coefficient of Linear Expansion:

Unprocessed	0.0017% per % RH
Processed	0.0016% per % RH

Processing Dimensional Change:

Dependent on drying conditions

1) Reciprocity

With recommended processing, the reciprocity speed change is negligible within exposure range of 1/1000 second to 1 billionth second; there is no change in contrast.

2) Graphs[1]

Using KODAK RA 2000 Developer and Replenisher (1:2)

Characteristic

A) (10-98)
B) (12-98)

Spectral Sensitivity

C) (10-98)

The Kodak products mentioned in this document may not all be available in all regions or countries. Contact your local distributor or sales representative for availability.

If you have questions or need assistance, contact your local Kodak Polychrome Graphics representative, or log question with techassist@kpgraphics.com

The contents of this publication are subject to change without notice.

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USA

End of Instruction Sheet

[1] NOTICE: While the data presented are typical of production coatings, they do not represent standards that must be met by Kodak Polychrome Graphics. Varying storage, exposure, and processing conditions will affect results. The company reserves the right to change and improve product characteristics at any time.

TI2375B 11-98
SPECTRAL SENSITIVITY, For Publication

KODAK GEN 5 Films GRD, GRD7, GRDM, GR7M
KODAK RA 2000 Developer and Replenisher (1:2),
20 sec, 35C (95 F); D=0.60> D-min;

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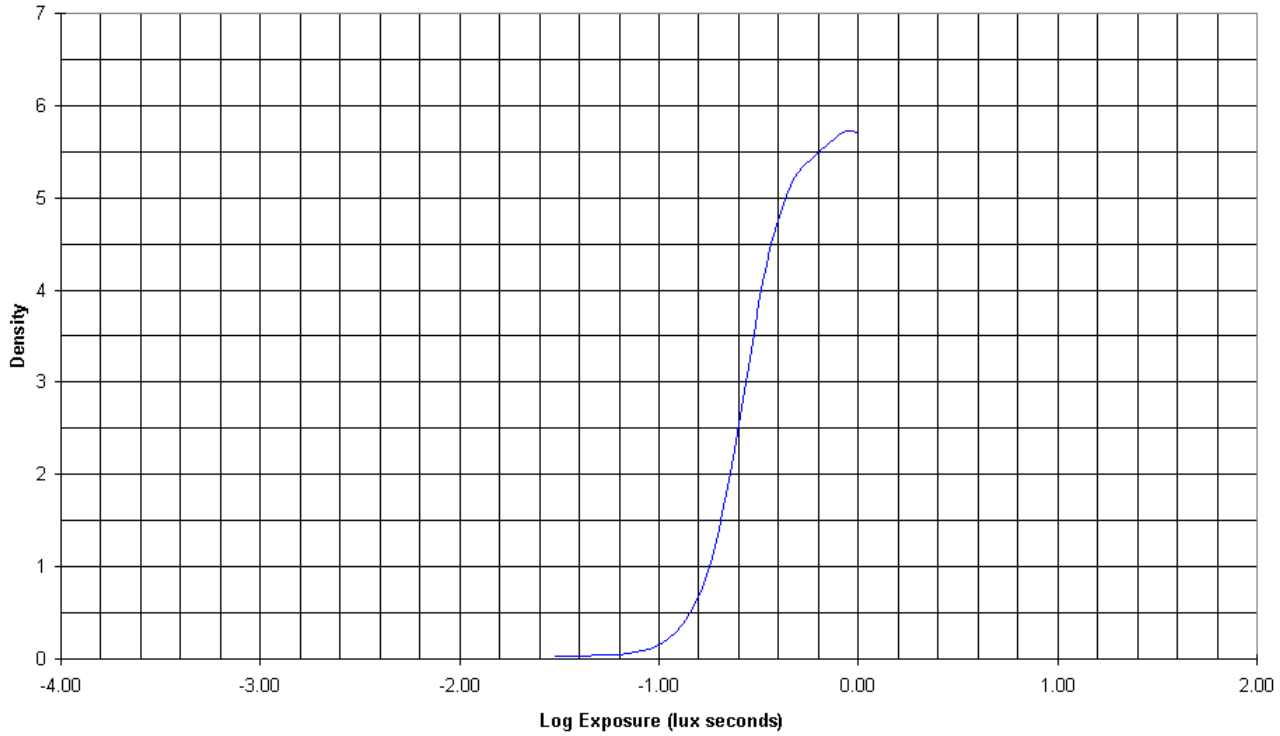
TI2375C 12-98
CHARACTERISTIC, For Publication

KODAK GEN 5 Film GRDM, GR7M
Exp. red laser, KODAK RA 2000 Developer and Replenisher (1:2), 95F, 20 sec; Diffuse visual



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